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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/973,424	10/09/2001	Sudhirdas K. Prayaga	15966-585CIP2 (Cura-85CIP	8925
30623	7590 12/15/2003		EXAMINER	
MINTZ, LE	VIN, COHN, FERRIS, D. P.C.	ANDRES, JANET L		
ONE FINANCIAL CENTER BOSTON, MA 02111			ART UNIT	PAPER NUMBER
			1646	

DATE MAILED: 12/15/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/973,424	PRAYAGA ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Janet L. Andres	1646				
Period fe	The MAILING DATE of this communication or Reply	appears on the cover s	heet with the correspondence address				
THE - Exte after - If the - If NO - Failu - Any	MAILING DATE OF THIS COMMUNICATION IN IT I	DN. FR 1.136(a). In no event, howevent. a reply within the statutory minimeriod will apply and will expire Statute, cause the application to be	er, may a reply be timely filed from of thirty (30) days will be considered timely. X (6) MONTHS from the mailing date of this communication.				
1)⊠	Responsive to communication(s) filed on 1	2 September 2003.					
2a)[This action is non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	Claim(s) 1,2,4,27,28,33,36,39,49 and 50 is	s/are pending in the app	olication.				
5)□ 6)⊠ 7)⊠	 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) is/as objected to. 7) ☒ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 						
	on Papers	·					
10) <u> </u>	The specification is objected to by the Exan The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the cor The oath or declaration is objected to by the	accepted or b) object the drawing(s) be held in rection is required if the c	abeyance. See 37 CFR 1.85(a). rawing(s) is objected to. See 37 CFR 1.121(d).				
	nder 35 U.S.C. §§ 119 and 120						
* S 13)⊠ A sii 37 a) 14)⊠ A re	application from the International Buree the attached detailed Office action for a cknowledgment is made of a claim for domence a specific reference was included in the CFR 1.78. The translation of the foreign language cknowledgment is made of a claim for domence was included in the first sentence of	ents have been received ents have been received priority documents have reau (PCT Rule 17.2(a) list of the certified copie estic priority under 35 to first sentence of the specific priority under 35 to provisional application estic priority under 35 to priority	ed in Application No been received in this National Stage). es not received. J.S.C. § 119(e) (to a provisional application) becification or in an Application Data Sheet. has been received. J.S.C. §§ 120 and/or 121 since a specific				
Attachment	` '						
2) 🔲 Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s	5) No.	erview Summary (PTO-413) Paper No(s) ice of Informal Patent Application (PTO-152) er: sequence alignment.				

U.S. Patent and Trademark Office PTOL-326 (Rev. 11-03)

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group I, polypeptides and methods of use, and SEQ ID NO:66 in the response filed 12 September 2003 is acknowledged. Claims 1, 2, 4, 27, 28, 33, 36, 39, 49, and 50 are pending and under examination in this office action.

Specification

2. The title is objected to because of the use of the word "novel". Novelty is a legal concept and does not describe the invention claimed. Novelty is required of all claimed inventions before they are issued as patents. To use the term in the title would imply merit in this regard without actual examination. Accordingly, though MPEP 606.01 does not specifically refer to "novel", it is similar to the term "improve" which also implies merit without examination. Note that MPEP 606.01 gives the examiner the final authority to change the title as she sees fit.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 33, 36, and 50 are rejected under 35 U.S.C. 102(b) as being anticipated by Chen et al., Oncogene, 1991, vol. 6, no. 6, pp. 1057-1061.

Chen et al. teaches human eek. Chen et al. provided only a partial sequence. However, the complete sequence of eek is identical to Applicant's SEQ ID NO: 5, as is stated on p. 10 of the parent application 09/687726. The amino acid sequence of a protein is an inherent property

of that protein; specifying the sequence does not change the nature of the protein. SEQ ID NO: 66 is a truncated version of SEQ ID NO: 5. See the sequence alignment provided between eek and SEQ ID NO: 66. Chen et al. thus anticipates claims drawn to sequences comprising SEQ ID NO: 66. While Chen does not specifically teach a carrier, as claimed in claim 33, an expressed protein would of necessity be in some form of carrier. The requirement of a kit, as claimed in claim 36, does not change the nature of the contents of the kit and thus does not distinguish over the prior art of Chen et al.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

6. Claims 2, 4, and 39 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

These claims are drawn to naturally occurring variants. Such variants exist in nature and have particular sequences, which cannot be predicted. Applicant has disclosed no such variants and one of skill would not, based on the instant specification, be able to identify naturally occurring variants. Thus the skilled artisan would not conclude that Applicant was in possession of such variants.

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7. Claims 27, 28, 39, and 49 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The factors to be considered have been summarized as the quantity of experimentation necessary, the amount of direction or guidance presented, the presence or absence of working examples, the nature of the invention, the state of the prior art, the relative skill of those in the art, the predictability or unpredictability of the art and the breadth of the claims. *Ex Parte Forman,* (230 USPQ 546 (Bd Pat. App. & Int. 1986)); *In re Wands,* 858 F.2d 731, 8 USPQ 2d 1400 (Fed. Cir. 1988).

These claims are drawn to methods of therapeutic use of the polypeptide of SEQ ID NO: 66. The specification, however, fails to provide guidance as to how this protein could be used in any way. What is taught on p. 28 is that message is expressed in several cell types, and differentially expressed in cancerous breast and lung tissue when compared to normal tissue. These teachings provide no indication of how the protein could be used in any therapeutic manner. No relevant biochemical or physiological effects are set forth and there is no direction as to how they could be identified. The prior art fails to provide compensatory teachings; shile ephrin receptors are known, what is known primarily concerns their roles in development. No therapeutic use or associated disease is identified by the prior art. Thus, without further guidance, one of skill in the art would not predictably be able to use the protein of SEQ ID NO: 66 in any therapeutic fashion, and it would require undue experimentation to practice the invention as claimed.

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NO CLAIM IS ALLOWED.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Janet Andres, Ph.D., whose telephone number is (703) 305-0557.

The examiner can normally be reached on Monday through Friday from 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler, Ph.D., can be reached at (703) 308-6564. The fax phone number for this group is (703) 872-9306 or (703) 872-9307 for after final communications.

Communications via internet mail regarding this application, other than those under U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [yvonne.eyler@uspto.gov].

All Internet email communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark Office on February 25, 1997 at 1195 OG 89.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Janet Andres, Ph.D. Patent Examiner

December 11, 2003